



## BIOLOGY NMDCAT EARLIER (CTS) PREP

### PMC UNIT WISE TEST Unit-1

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#### TOPIC:

#### ✓ Cell Structure and Function

#### Q.1 Find out the multinucleated cell:

- A. Osteoblast
- B. Osteocytes
- C. Leucocytes
- D. Osteoclast

#### Q.2 The group containing only multicellular organisms is:

- A. Bacteria
- B. Fungi
- C. Protists
- D. Plants

#### Q.3 Cell membrane is present in all of the following except:

- A. Virion
- B. Eubacteria
- C. Archaeobacteria
- D. Amoeba

#### Q.4 Membranous organelles are absent in:

- A. Bacteria
- B. Plants
- C. Protists
- D. Animals

#### Q.5 All of the following structures are present in both plant and animal cells except:

- A. Endoplasmic reticulum
- B. Mitochondria
- C. Golgi bodies
- D. Glyoxisomes

#### Q.6 A prokaryotic cell may contain:

- A. Well defined nucleus
- B. Cell wall
- C. True chromosome
- D. Mitochondria

#### Q.7 Most abundant component of cell membrane is:

- A. Carbohydrates
- B. Lipids
- C. Proteins
- D. Nucleic acids

#### Q.8 All of the following can cross lipid bilayer of cell membrane easily except:

- A. Small gas molecules
- B. Ethanol
- C. Steroids
- D. Ions

#### Q.9 It is an uphill movement:

- A. Diffusion
- B. Osmosis
- C. Facilitated diffusion
- D. Active transport

#### Q.10 The ribosomes are attached to messenger RNA through:

- A.  $Mg^{+2}$
- B. Smaller subunit
- C. tRNA
- D. Larger subunit

#### Q.11 In polysome, a group of ribosomes is attached to:

- A. Complementary DNA
- B. Ribosomal RNA
- C. Transfer RNA
- D. Messenger RNA

#### Q.12 In a prokaryotic cell, new ribosomes are assembled in:

- A. Cytoplasm
- B. Golgi bodies
- C. Nucleolus
- D. Rough ER

#### Q.13 Under an electron microscope, it is a network of channels extending throughout the cytoplasm:

- A. Cytoskeleton
- B. Golgi complex
- C. Endoplasmic reticulum
- D. Mitochondria

#### Q.14 SER are involved in all of the following functions except:

- A. Metabolism of steroids
- B. Intracellular transport
- C. Detoxification of harmful drugs
- D. Storage of proteins

#### Q.15 Proteins are modified into glycoproteins in:

- A. Ribosomes
- B. Smooth ER



**Q.16** C. Rough ER  
“Suicidal bags” are  
A. Ribosomes  
C. RER

D. Golgi apparatus  
B. SER  
D. Lysosomes



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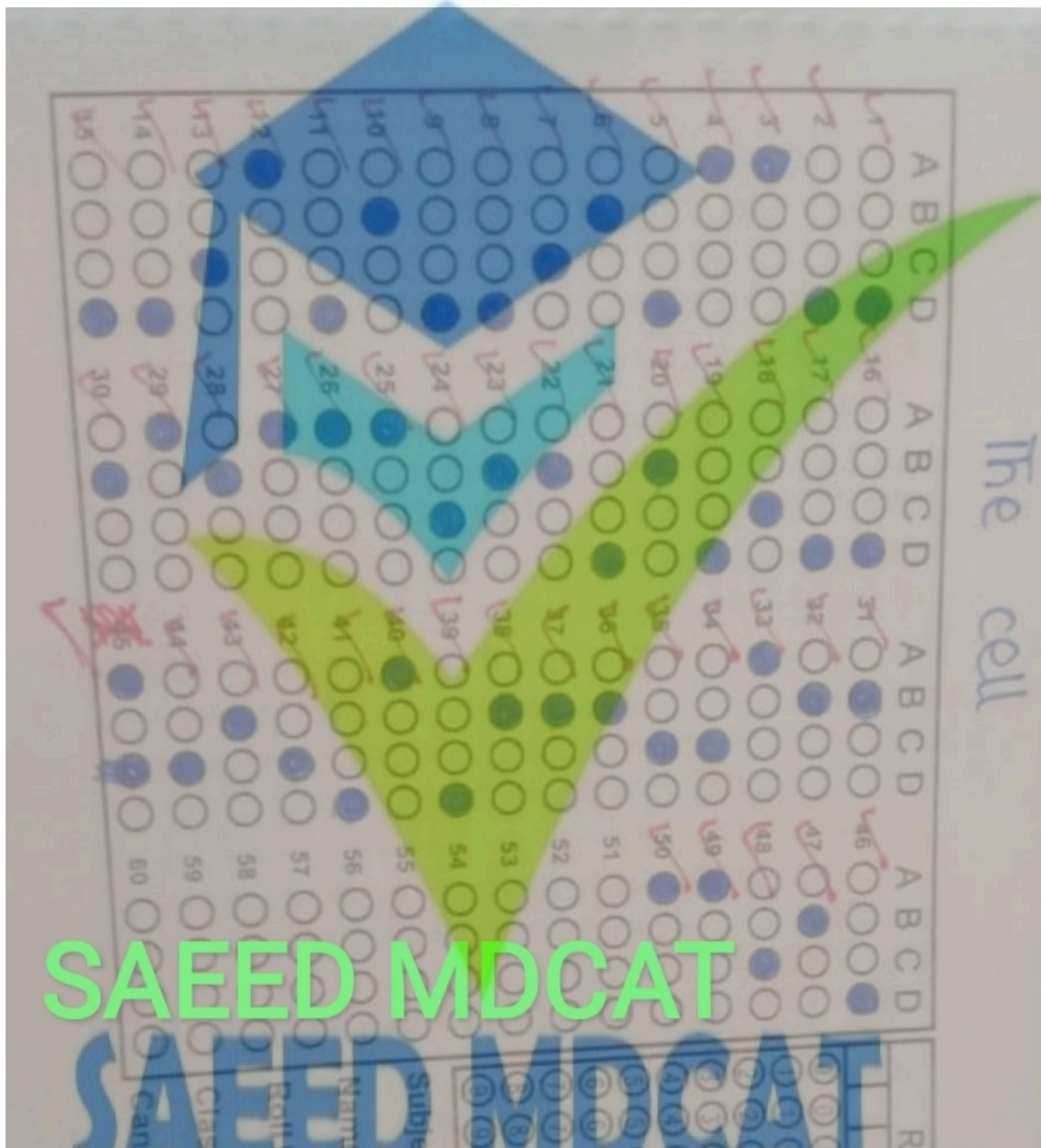
- Q.17 Golgi vesicles bud off from:**  
A. Rough endoplasmic reticulum  
B. Forming face of Golgi apparatus  
C. Smooth endoplasmic reticulum  
D. Maturing face of Golgi apparatus
- Q.18 It is false about mitochondria:**  
A. Double membranous organelle  
B. Contains mitochondria matrix  
C. Both membranes are smooth  
D. Varies in number, size and shape
- Q.19 Mitochondrial matrix contains enzymes for all of the following functions except:**  
A. ETC  
B. Beta oxidation  
C. Aerobic respiration  
D. Anaerobic respiration
- Q.20 It is visible in dividing cells:**  
A. Nucleus  
B. Chromosome  
C. Chromatin fiber  
D. Nucleolus
- Q.21 rDNA is associated with:**  
A. Nuclear membrane  
B. Peripheral granular area of nucleolus  
C. Nucleoplasm  
D. Central fibril area of nucleolus
- Q.22 Peptidoglycan is most probably found in:**  
A. Well defined nucleus  
B. Cell wall  
C. True chromosome  
D. Plasmalemma
- Q.23 Which of these is not an ATP dependent process?**  
A. Pinocytosis  
B. Facilitated diffusion  
C. Phagocytosis  
D. Exocytosis
- Q.24 In eukaryotic cell, ribosomes present in cytosol are of:**  
A. 70S  
B. 100S  
C. 80S  
D. Both 70S and 80S
- Q.25 Which of these is not a part of ribosome?**  
A. rDNA  
B. Ribosomal proteins  
C. rRNA  
D. Nucleic Acid
- Q.26 Following is a self-replicating organelle:**  
A. Chloroplast  
B. Plasma membrane  
C. Ribosome  
D. Peroxisomes
- Q.27 Which is near to the plasma membrane?**  
A. Secondary cell wall  
B. Middle lamella  
C. Primary cell wall  
D. Tonoplast
- Q.28 Matrix in mitochondrion is actually:**  
A. Outer compartment  
B. Inner compartment  
C. Inter membranous space  
D. Cristae
- Q.29 Pick an incorrect statement about nucleolus:**  
A. It is an organelle  
B. It is factory of synthesis of ribosomes  
C. It has no separating membrane  
D. It is composed of two regions
- Q.30 Number of autosomal pairs present in human are:**  
A. 44  
B. 22  
C. 23  
D. 46
- Q.31 Cisternae is made up of:**  
A. Glycoproteins  
B. Lipoproteins  
C. Glycolipids  
D. Nucleoproteins
- Q.32 Which of the following is not a part of plasma membrane?**  
A. Cholesterol  
B. Fibers of extracellular matrix  
C. Phospholipids  
D. Glycoproteins
- Q.33 Generally, cells have:**  
A. One nucleus  
B. Micronucleus  
C. Two nuclei  
D. Many nuclei
- Q.34 The term "cell" is not applied to:**  
A. Algae  
B. Bacteria  
C. Virus  
D. Fungi
- Q.35 A cell without its cell wall is termed as:**  
A. Protoplasm  
B. Nucleoplasm  
C. Protoplast  
D. Apoplast



- Q.36** Which one of the following structures is associated with Golgi apparatus?  
A. Cristae  
B. Cisternae  
C. Annuli  
D. Quantasomes
- Q.37** According to fluid mosaic model, proteins present in cell membrane:  
A. Are fibrous proteins  
B. Are embedded in lipid bilayer  
C. Form bilayer  
D. Are uniformly distributed
- Q.38** Proteins synthesized on ribosomes attached with RER are:  
A. Released in cytosol  
B. Pushed into channels of RER  
C. Directly transferred to Golgi bodies  
D. Glycosylated in RER
- Q.39** Secretions are products formed within the cell and move outside the cell. Correct sequence of organelles involved is:  
A. Ribosome, Golgi apparatus, ER  
B. Golgi apparatus, ER, Ribosome  
C. ER, Golgi apparatus, Ribosome  
D. Ribosome, ER, Golgi apparatus
- Q.40** Which of the following statements is not true?  
A. Both mitochondria and chloroplast provide energy to cells in the same way  
B. Both mitochondria and chloroplast have more than one membrane  
C. Only chloroplast contain chlorophyll pigments  
D. Both animal and plant cells contain mitochondria
- Q.41** The soluble part of cytoplasm or fluid that remains when all organelles are removed is known as:  
A. Gelatin material  
B. Cytoskeleton  
C. Solution  
D. Cytosol
- Q.42** Phragmoplast is formed from vesicle which originates from:  
A. Smooth Endoplasmic Reticulum  
B. Ribosome  
C. Golgi complex  
D. Rough Endoplasmic Reticulum
- Q.43** Among followings, which cellular organelle contains circular nucleic acid similar to those found in bacteria?  
A. SER  
B. Chloroplast  
C. Lysosome  
D. Nucleus
- Q.44** Which one of the following organelles consists of two sub-units?  
A. Golgi body  
B. Mitochondria  
C. Ribosome  
D. Plastids
- Q.45** The inner membrane of mitochondria is folded to form finger like structure called:  
A. Cristae  
B. Matrix  
C. F<sub>1</sub> particle  
D. Cisternae
- Q.46** All plastids have similar structure because they:  
A. Are present together  
B. Perform same function  
C. Store starch, lipids, and proteins  
D. Get transformed from one type to another
- Q.47** Self-eating by lysosomes is called:  
A. Phagocytosis  
B. Autophagy  
C. Autolysis  
D. Gangrene
- Q.48** Which of the following is not a function of vacuole in plant cells?  
A. Storage  
B. Waste disposal  
C. H<sub>2</sub>O<sub>2</sub> production  
D. Mechanical support
- Q.49** During endocytosis:  
A. The cell engulfs and internalizes material by using its membrane  
B. The cell enables the extra cellular digestion of large molecules  
C. The cell divides its cytoplasm  
D. The cell digests itself
- Q.50** Carbohydrates present in plasmalemma are in the form of:  
A. Glycoconjugates  
B. Glycoproteins  
C. Glycolipids  
D. Starch



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